

SEQUENCE LISTING

<110> APPLERA CORPORATION et al.

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
AND USES THEREOF

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<212> DNA

<213> Homo Sapien

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 Glu Pro Pro Glu Gly Gly Trp Gly Trp Leu Val Met Leu Ala Ala Met
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 Trp Cys Asn Gly Ser Val Phe Gly Ile Gln Asn Ala Tyr Gly Val Leu
 290 295 300
 Phe Val Ser Met Leu Glu Thr Phe Gly Ala Lys Asp Asp Asp Asn Met
 305 310 315 320
 Ala Phe Lys Ala Ala Trp Val Gly Gln Ser Leu Ser Met Gly Met Ile
 325 330 335
 Phe Phe Cys Cys Pro Ile Val Ser Val Phe Thr Asp Leu Phe Gly Cys
 340 345 350
 Arg Lys Thr Ala Val Val Gly Ala Ala Val Gly Phe Val Gly Leu Met
 355 360 365
 Ser Ser Ser Phe Val Ser Ser Ile Glu Pro Leu Tyr Leu Thr Tyr Gly
 370 375 380
 Ile Ile Phe Ala Cys Ser Leu Ser Met Gly Met Ile Phe Phe Cys Cys
 385 390 395 400
 Pro Ile Val Ser Val Phe Thr Asp Phe Gly Cys Arg Thr Ala Val Gly
 405 410 415
 Ala Ala Val Gly Phe Val Gly Leu Met Ser Ser Ser Phe Val Ser Ser
 420 425 430
 Ile Glu Pro Leu Tyr Thr Tyr Gly Phe Ala Cys Ser Ser Leu Ser Met
 435 440 445
 Gly Met Ile Phe Phe Cys Cys Pro Ile Val Ser Val Phe Thr Asp Met

450		455		460	
Phe Gly Cys Arg Arg Thr Ala Val Leu Gly Ala Ala Val Gly Phe Val					
465		470		475	480
Gly Leu Met Ser Ser Ser Phe Val Ser Ser Ile Glu Pro Leu Tyr Phe					
	485		490		495
Thr Tyr Gly Val Val Phe Ala Cys Gln Gly Cys Ser Phe Ala Tyr Gln					
	500		505		510
Pro Ser Leu Val Ile Leu Gly His Tyr Phe Lys Lys Arg Leu Gly Leu					
	515		520		525
Val Asn Gly Ile Val Thr Ala Gly Ser Ser Val Phe Thr Ile Leu Leu					
	530		535		540
Pro Leu Leu Leu Arg Val Leu Ile Asp Ser Val Gly Leu Phe Tyr Thr					
545		550		555	560
Leu Arg Val Leu Cys Gly Cys Ser Phe Ala Tyr Gln Pro Ser Leu Val					
	565		570		575
Ile Leu Gly His Tyr Phe Lys Lys Arg Leu Gly Leu Val Asn Gly Ile					
	580		585		590
Val Thr Ala Gly Ser Ser Val Phe Thr Ile Leu Leu Pro Leu Leu Leu					
	595		600		605
Leu Val Gly Leu Tyr Thr Leu Arg Leu Cys Ser Gly Cys Ser Phe Ala					
	610		615		620
Tyr Gln Pro Ser Leu Val Ile Leu Gly His Tyr Phe Lys Lys Arg Leu					
625		630		635	640
Gly Leu Val Asn Gly Ile Val Thr Ala Gly Ser Ser Val Phe Thr Ile					
	645		650		655
Leu Leu Pro Leu Leu Leu Gly Asn Leu Thr Ser Thr Val Gly Leu Cys					
	660		665		670
Tyr Thr Leu Arg Ile Leu Cys Gln Ile Phe Met Phe Val Leu Phe Leu					
	675		680		685
Ala Gly Phe Thr Tyr Arg Pro Leu Ala Thr Ser Thr Lys Asp Lys Glu					
	690		695		700
Ser Gly Gly Ser Gly Ser Ser Leu Phe Ser Arg Lys Lys Phe Ser Pro					
705		710		715	720
Pro Lys Lys Ile Phe Asn Phe Ala Ile Phe Lys Val Thr Ala Tyr Ala					
	725		730		735
Val Trp Ala Val Ile Phe Met Phe Val Leu Phe Leu Ala Gly Phe Thr					
	740		745		750
Tyr Arg Pro Leu Ser Lys Lys Glu Ser Ser Ser Ser Phe Ser Arg Lys					
	755		760		765
Ser Pro Pro Lys Lys Ile Phe Asn Phe Ala Phe Lys Thr Ala Tyr Ala					
	770		775		780
Val Trp Ala Ser Ile Phe Met Phe Val Leu Phe Leu Ala Gly Phe Thr					
785		790		795	800
Tyr Arg Pro Leu Val Pro Ser Ser Lys Glu Lys Glu Ser Glu Asp Ser					
	805		810		815
Arg Ser Ser Phe Phe Ser Arg Arg Lys Leu Ser Pro Pro Lys Lys Ile					
	820		825		830
Phe Asn Phe Ala Leu Phe Lys Glu Thr Ala Tyr Ala Val Trp Ala Ala					
	835		840		845
Gln Gly Ile Pro Leu Ala Leu Phe Gly Tyr Phe Val Pro Tyr Val His					
	850		855		860
Leu Met Lys His Val Asn Glu Arg Phe Gln Asp Glu Lys Asn Lys Glu					
865		870		875	880
Val Val Leu Met Cys Ile Gly Val Thr Ser Gly Val Gly Arg Leu Leu					
	885		890		895
Phe Gly Arg Ile Ala Asp Tyr Val Pro Gly Val Lys Lys Gly Ile Pro					
	900		905		910
Leu Ala Leu Phe Gly Tyr Phe Val Pro Tyr Val His Leu Met His Val					
	915		920		925
Glu Arg Phe Asp Asn Lys Glu Val Met Cys Ile Gly Val Thr Ser Gly					

930	935	940
Val Gly Arg Leu Leu Phe Gly Arg Ile Ala Asp Tyr Pro Gly Val Lys		
945	950	955
Lys Ser Gly Ile Pro Leu Ala Leu Phe Gly Tyr Phe Val Pro Tyr Val		960
	965	970
His Leu Met Asn His Val Lys Glu Arg Phe Lys Asp Val Asn Asn Lys		975
	980	985
Glu Val Leu Phe Met Cys Ile Gly Val Thr Ser Gly Val Gly Arg Leu		990
	995	1000
Leu Phe Gly Arg Ile Ala Asp Tyr Leu Pro Gly Val Lys Lys Gln Val		1005
	1010	1015
Tyr Leu Gln Val Leu Ser Phe Phe Phe Ile Gly Leu Met Ser Met Met		1020
1025	1030	1035
Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu Ile		1040
	1045	1050
Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala		1055
	1060	1065
Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Val Tyr Leu Gln Val		1070
	1075	1080
Leu Ser Phe Phe Phe Ile Gly Leu Ser Met Met Ile Pro Leu Cys Ser		1085
	1090	1095
Phe Gly Ala Leu Ile Ala Cys Leu Ile Met Gly Leu Phe Asp Gly Cys		1100
1105	1110	1115
Phe Ile Ser Ile Met Ala Pro Ile Ala Phe Glu Leu Val Gly Gln Asp		1120
	1125	1130
Ser Gln Ser Val Tyr Leu Gln Val Leu Ser Phe Phe Phe Ile Gly Leu		1135
	1140	1145
Thr Ser Met Met Ile Pro Leu Cys Ser Val Phe Gly Ala Leu Ile Ala		1150
	1155	1160
Leu Cys Leu Ile Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met		1165
	1170	1175
Ala Pro Ile Ala Phe Glu Leu Val Gly Pro Gln Asp Ala Ser Gln Gln		1180
1185	1190	1195
Ala Ile Gly Phe Leu Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly		1200
	1205	1210
Pro Pro Ile Ala Gly Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val		1215
	1220	1225
Ala Phe Tyr Leu Ala Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu		1230
	1235	1240
Cys Phe Ile Pro Trp Ile His Ser Lys Lys Gln Arg Ala Ile Gly Phe		1245
	1250	1255
Leu Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ala Gly		1260
1265	1270	1275
Leu Leu Asp Lys Leu Gly Ser Tyr Asp Ala Phe Tyr Leu Ala Gly Pro		1280
	1285	1290
Pro Ile Gly Gly Ala Val Leu Cys Ile Pro Trp Ile His Ser Lys Lys		1295
	1300	1305
Gln Arg Ser Ala Ile Gly Phe Leu Leu Gly Phe Met Ser Ile Pro Met		1310
	1315	1320
Thr Val Gly Pro Pro Val Ala Gly Leu Leu His Asp Lys Leu Gly Ser		1325
	1330	1335
Tyr Asp Leu Ala Phe Tyr Leu Ala Gly Ile Pro Pro Phe Ile Gly Gly		1340
1345	1350	1355
Ala Val Leu Cys Leu Ile Pro Trp Ile His Ser Lys Lys Gln Arg Gln		1360
	1365	1370
Glu Ile Ser Lys Thr Thr Gly Lys Glu Lys Met Glu Lys Met Leu Glu		1375
	1380	1385
Asn Gln Asn Ser Leu Leu Ser Ser Ser Ser Gly Met Phe Lys Lys Glu		1390
	1395	1400
Ser Asp Ser Ile Ile Glu Ile Ser Lys Thr Gly Glu Lys Met Glu Lys		1405

1410						1415						1420					
Met	Leu	Asn	Gln	Ser	Leu	Leu	Ser	Ser	Ser	Ser	Gly	Phe	Lys	Lys	Glu		
1425						1430					1435					1440	
Ser	Asp	Ser	Ile	Ile	Ser	Glu	Ile	Ser	Lys	Asn	Thr	Gly	Gly	Glu	Lys		
					1445					1450					1455		
Met	Glu	Lys	Met	Leu	Ala	Asn	Gln	Ser	Ser	Leu	Leu	Ser	Ser	Ser	Ser		
					1460					1465					1470		
Gly	Ile	Phe	Lys	Lys	Glu	Ser	Asp	Ser	Ile	Ile							
					1475					1480							